Mesa Water District
Data Center Server Hardware Recommendation

5 Year IT Master Plan

Data Center Hardware Refresh

Current State & Recommendation

- Data Center hardware was implemented in 2015 and is at end of life
- The Data Center hardware refresh is included in the FY 2021 IT capital plan
- RECOMMENDATION: Transition from a full on-site data center to a cloud data center platform
Attributes

- Improved redundancy
- Reduced space, power & HVAC requirements
- Requires strict controls and governance
- Outsourced infrastructure renewal & maintenance
- Dynamically scalable capacity
- Cost is variable based on usage

Assessment

Cloud Data Center Platform

- Improved resiliency with more capable redundancy, backup and recovery options
- Has become an industry best practice
- Lower cost of ownership
Barron's
- Cloud data center platform is growing “with an increasing focus on facilitating ease of use, migration from traditional IT infrastructure, security and compliance”

T2 Tech Group perspective
- Other mission critical operations such as healthcare are transitioning from on-site to cloud data center platforms

Amazon Web Services is the recommended Cloud Data Center services provider.

Gartner Magic Quadrant
Five-year total cost of ownership

<table>
<thead>
<tr>
<th>Cloud Data Center</th>
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<tbody>
<tr>
<td>FY2021 Capital HW Capital</td>
<td>$100,000</td>
</tr>
<tr>
<td>FY2021 T2 Tech Group Professional Services</td>
<td>$835,452</td>
</tr>
<tr>
<td>Five Year Annual Ongoing Costs</td>
<td>$1,020,000</td>
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<tr>
<td>Five Year Total Cost</td>
<td>$1,955,452</td>
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Five-year saving of $750,000, $50,000 per year plus a minimum of $500,000 every five years.

FY2021-22 IT Security Initiatives

- 7/24 External Security Monitoring
- Mobile Device Management
- User Authentication
- Device Security
Recommendation

Recommend that the Board of Directors:

- Award a five-year contract to Amazon Web Services in the amount of $132,000 per year for a total contract amount not to exceed $660,000 for a cloud-based data center services platform.

- Award a contract to T2 Technology Group, LLC for an amount not to exceed $835,452 for the transition of the onsite information technology data center to a cloud-based data center.

- Approve an additional amount not to exceed $175,000 for infrastructure, license subscription, and circuit connection to Amazon Web Services.

Questions?